Claims

What is claimed is:

5	1.	An actuator	assembly	comprising:
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a pivot assembly comprising:

a first portion configured to be fixed with respect to a base; and

a second portion movable with respect to the first portion;

10 and

an actuator mounted to the second portion by a metallurgical bond.

- 2. The actuator assembly of claim 1 in which the second portion further comprises:
- 15 a sleeve; and
 - a flange extending transversely from the sleeve.
 - 3. The actuator assembly of claim 2 in which the actuator touches the flange.

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- 4. The actuator assembly of claim 3 in which the actuator is metallurgically bonded to the flange.
- 5. The actuator assembly of claim 3 in which the actuator is metallurgically bonded to the sleeve.
 - 6. The actuator assembly of claim 1 in which the actuator further defines an aperture sized to receive the second portion.

- 7. The actuator assembly of claim 1 in which the metallurgical bond is produced by laser welding.
- 8. The actuator assembly of claim 1 in which the actuator further
 5 comprises an actuator arm and a voice coil support extending in generally
 opposite directions away from the second portion.
 - 9. A data storage device comprising:

a base;

10 a storage medium; and

the actuator assembly of claim 1, in which the actuator is configured to access the storage medium and the rotator is mounted to the base.

- 15 10. The data storage device of claim 9, in which the storage medium comprises a rotatable disc.
 - 11. The data storage device of claim 9, in which the storage medium comprises a magnetic medium.

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- 12. A method of making an actuator assembly comprising steps of:
- (a) bringing an actuator beam into abutment with a rotating portion of a pivot mechanism; and
 - (b) laser welding the actuator beam to the rotating portion.

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13. The method of claim 12 in which the bringing step (a) further comprises passing a sleeve of the rotating portion through an aperture in the actuator beam.

- 14. The method of claim 13 in which the bringing step (a) further comprises bringing at least one portion of the actuator beam into abutment with a flange extending from the sleeve.
- 5 15. The method of claim 14 in which the bringing step (a) involves providing from a first direction one of the actuator beam and the sleeve; and in which the welding step (b) involves directing a laser from the first direction.
- 16. The method of claim 15 in which the welding step (b) further comprises forming at least one spot-weld joining the actuator beam and the rotator.
 - 17. An actuator assembly comprising:

a pivot mechanism;

an actuator arm; and means for bonding the actuator arm directly to the rotator.